

Docket No. US010480
U.S. Serial No. 09/93,338
Patent

IN THE CLAIMS

Please amend the claims as follows:

1. (Original) An acoustical enclosure comprising:
a speaker box comprising walls that enclose an acoustic chamber;
a partitioning wall coupled to interior surfaces of said walls of said speaker box, said partitioning wall dividing said acoustic chamber into a first chamber and into a second chamber;
wherein at least one wall of said walls that enclose said acoustic chamber comprises portions that form an external vent to said second chamber;
a first speaker mounted within said partitioning wall, wherein a front portion of said first speaker has access to said first chamber and a back portion of said first speaker has access to said second chamber; and
a second speaker mounted within one of said walls that enclose said acoustic chamber, wherein a front portion of said second speaker has access to air outside said speaker box and a back portion of said second speaker has access to said first chamber.
2. (Currently amended) An acoustical enclosure as claimed in Claim 1 wherein said partitioning wall comprises portions that form an uncovered internal vent between said first chamber and said second chamber.
3. (Original) An acoustical enclosure as claimed in Claim 1 wherein said first speaker and said second speaker are connected in phase electrically.

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4. (Currently amended) An acoustical enclosure as claimed in Claim 3 wherein said partitioning wall comprises portions that form an uncovered internal vent between said first chamber and said second chamber.

5. (Original) An acoustical enclosure as claimed in Claim 1 wherein a volume of said first chamber is effectively increased due to the presence of said second speaker within one of said walls that enclose said acoustic chamber.

6. (Currently amended) An acoustical enclosure as claimed in Claim 5 wherein said partitioning wall comprises portions that form an uncovered internal vent between said first chamber and said second chamber.

7. (Original) An acoustical enclosure as claimed in Claim 1 having a low frequency response range that extends to approximately thirty Hertz.

8. (Currently amended) An acoustical enclosure as claimed in Claim 7 wherein said partitioning wall comprises portions that form an uncovered internal vent between said first chamber and said second chamber.

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9. (Original) An acoustical enclosure comprising:

a speaker box comprising walls that enclose an acoustic chamber;

a partitioning wall coupled to interior surfaces of said walls of said speaker box, said partitioning wall dividing said acoustic chamber into a first chamber and into a second chamber;

wherein at least one wall of said walls that enclose said acoustic chamber comprises portions that form an external vent to said second chamber;

a first speaker mounted within said partitioning wall, wherein a front portion of said first speaker has access to said first chamber and a back portion of said first speaker has access to said second chamber; and

a second speaker mounted within one of said walls that enclose said acoustic chamber, wherein a front portion of said second speaker has access to air outside said speaker box and a back portion of said second speaker has access to said first chamber;

wherein said second speaker enhances acoustical performance of said acoustic chamber of said acoustical enclosure by extending a range of low frequency response of said acoustical enclosure to approximately thirty Hertz.

10. (Currently amended) An acoustical enclosure as claimed in Claim 9 wherein said partitioning wall comprises portions that form an uncovered internal vent between said first chamber and said second chamber.

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11. (Previously amended) A method for enhancing acoustical performance of a dual chamber acoustical enclosure, said method comprising the steps of:
extending a range of low frequency response of said dual chamber acoustical enclosure to approximately thirty Hertz by placing a first speaker within a partitioning wall that separates a first chamber and a second chamber of said dual chamber acoustical enclosure, wherein a front portion of said first speaker has access to said first chamber and a back portion of said first speaker has access to said second chamber of said dual chamber acoustical enclosure; and
placing a second speaker within a wall of said first chamber of said dual chamber acoustical enclosure, wherein a front portion of said second speaker has access to air outside said dual chamber acoustical enclosure and a back portion of said second speaker has access to said first chamber of said dual chamber acoustical enclosure;

wherein at least one wall of said walls that enclose said acoustic chamber comprises portions that form an external vent to said second chamber.

12. (Previously amended) A method as claimed in Claim 11 further comprising the step of:

electrically connecting said first speaker and said second speaker in phase.

13. (Currently amended) A method as claimed in Claim 11 further comprising the step of:

placing an uncovered internal vent in said partitioning wall between said first chamber and said second chamber.

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14. (Previously amended) A method as claimed in Claim 11 further comprising the step of:

effectively increasing a volume of said first chamber due to the presence of said second speaker within said wall of said first chamber of said dual chamber acoustical enclosure.

15. (Currently amended) A method as claimed in Claim 14 further comprising the step of:

placing an uncovered internal vent in said partitioning wall between said first chamber and said second chamber.

16. (Currently amended) A method as claimed in Claim 12 further comprising the step of:

placing an uncovered internal vent in said partitioning wall between said first chamber and said second chamber.

17. (Previously added) A method as claimed in Claim 12 further comprising the step of:

effectively increasing a volume of said first chamber due to the presence of said second speaker within said wall of said first chamber of said dual chamber acoustical enclosure.

18. (Currently amended) A method as claimed in Claim 17 further comprising the step of:

placing an uncovered internal vent in said partitioning wall between said first chamber and said second chamber.

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19. (Previously added) An acoustical enclosure as claimed in Claim 9 wherein said first speaker and said second speaker are connected in phase electrically.

20. (Currently amended) An acoustical enclosure as claimed in Claim 19 wherein said partitioning wall comprises portions that form an uncovered internal vent between said first chamber and said second chamber.